BRAIN RESEARCH

VOL. 774 NOS. 1,2 **CONTENTS** **7 NOVEMBER 1997**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Publisher's Announcement v

Guidelines for the submission of manuscripts vii

Research reports

Reciprocal regional changes in brain NPY receptor density during dietary restriction and dietary-induced obesity in the rat
P.S. Widdowson, R. Upton, L. Henderson, R. Buckingham, S. Wilson and G. Williams (UK) 1

Expression and induction of cytochrome *P*-450 1A1 and *P*-450 2D subfamily in the rat glioma C6 cell line
J. Geng and H.W. Strobel (USA) 11

Insulin-like growth factor-I prevents development of a vincristine neuropathy in mice
P.C. Contreras, J.L. Vaught, J.A. Gruner, C. Brosnan, C. Steffler, J.C. Arezzo, M.E. Lewis, J.A. Kessler and S.C. Apfel (USA) 20

Locus coeruleus electrophysiological activity and responsivity to corticotropin-releasing factor in inbred hypertensive and normotensive rats
L.H. Conti, K.L. Youngblood, M.P. Printz and S.L. Foote (USA) 27

The progression of β-amyloid deposition in the frontal cortex of the aged canine
T. Satou, B.J. Cummings, E. Head, K.A. Nielson, F.F. Hahn, N.W. Milgram, P. Velazquez, D.H. Cribbs, A.J. Tenner and C.W. Cotman (USA, Japan, Canada) 35

Three-dimensional localization of dipoles for potentials evoked by posterior tibial nerve stimulation in the monkey
N. Hayashi, H. Nishijo, S. Endo and T. Ono (Japan) 44

SCH 23390-induced behavioral supersensitivity is not related to striatal c-*fos* levels
J.E. Muñoz, C. Marín and E. Tolosa (Spain) 51

Changes in Ib heteronymous inhibition to soleus motoneurones during cutaneous and muscle nociceptive stimulation in humans
A. Rossi and B. Decchi (Italy) 55

Intrinsic and extrinsic factors affecting phrenic motoneuronal excitability in neonatal rats
C.-K. Su, N.M. Mellen and J.L. Feldman (USA) 62

Alteration of protein kinase C activity after transient focal cerebral ischemia in mice using in vitro [^{3}H]phorbol-12,13-dibutyrate binding autoradiography
H. Hara, G. Ayata, P.L. Huang and M.A. Moskowitz (USA) 69

Sensory nociceptive axons invade the cerebellum of transgenic mice overexpressing nerve growth factor
M.D. Kawaja, G.S. Walsh, K. Petruccelli and G.E.A. Coome (Canada) 77

The novel compound TDN-345 induces synthesis/secretion of nerve growth factor in C6-10A glioma cells
H. Fukumoto, M. Kakihana, Y. Kaisho and M. Suno (Japan) 87

p-Chlorophenylalanine and fluoxetine inhibit D-fenfluramine-induced Fos expression in the paraventricular nucleus, cingulate cortex and frontal cortex but not in other forebrain and brainstem regions
A. Javed, L.D. Van De Kar and T.S. Gray (USA) 94

Neurons of the posterior subdivision of the nucleus preopticus periventricularis project to the preglomerular nucleus in the weakly electric fish, *Apteronotus leptorhynchus*
G.K.H. Zupanc and I. Horschke (Germany) 106

Cyclic guanosine 3′,5′-monophosphate-mediated neuroprotection by nitric oxide in dissociated cultures of rat dorsal root ganglion neurones
T. Thippeswamy and R. Morris (UK) 116

Changes in ouabain affinity of Na^+,K^+-ATPase during focal cerebral ischaemia in the mouse
I. Jamme, E. Petit, A. Gerbi, J.-M. Maixent, E.T. MacKenzie and A. Nouvelot (France) 123

Dexmedetomidine and halothane produce similar alterations in electroencephalographic and electromyographic activity in cats
N.E. Farber, K.A. Poterack and W.T. Schmeling (USA) 131

Odor exposure reveals non-uniform expression profiles of c-Jun protein in rat olfactory bulb neurons
K. Baba, M. Ikeda, T. Houtani, H. Nakagawa, T. Ueyama, K. Sato, S. Sakuma, T. Yamashita, Y. Tsukahara and T. Sugimoto (Japan) 142

Opioid-induced release of neurotensin in the periaqueductal gray matter of freely moving rats
C.-O. Stiller, H. Gustafsson, K. Fried and E. Brodin (Sweden) 149

Short-latency synaptic patterns among cat peroneal motoneurons
N. Kouchtir, J. Destombes, J.-F. Perrier, G. Horcholle-Bossavit and L. Jami (France) 159

WAY 100635, a 5-HT_{1A} receptor antagonist, prevents the impairment of spatial learning caused by intrahippocampal administration of scopolamine or 7-chloro-kynurenic acid
M. Carli, P. Bonalumi and R. Samanin (Italy) 167

(contents continued on p. 276)

0006-8993(19971107)774:1/2;1-F

(contents continued)

Immunocytochemical localization of AMPA receptors in the rat inferior colliculus
W.C. Gaza and C.E. Ribak (USA) 175
Tissue-specific mRNA expression of a calcitonin receptor-like receptor during fetal and postnatal development
B. Flühmann, M. Lauber, W. Lichtensteiger, J.A. Fischer and W. Born (Switzerland) 184

Short communications

Neuronal DNA damage precedes tangle formation and is associated with up-regulation of nitrotyrosine in Alzheimer's disease brain
J.H. Su, G. Deng and C.W. Cotman (USA) 193
Direct projections from nucleus X to the external cortex of the inferior colliculus in the rat
H. Li and N. Mizuno (Japan) 200
Voluntary alcohol drinking selectively accelerates dopamine release in the ventral striatum as reflected by 3-methoxytyramine levels
A. Honkanen, L. Ahtee and E.R. Korpi (Finland) 207
Rapid changes in brainstem maps of adult primates after peripheral injury
J. Xu and J.T. Wall (USA) 211
PTH-related peptide-like immunoreactivity in the median emminence, paraventricular and supraoptic nuclei in colchicine-treated rats
M. Tokunaga, Y. Ueta, T. Isse, Y. Hara, K. Tanaka, S. Yamamoto, N. Kabashima, I. Shibuya, Y. Hattori and H. Yamashita (Japan) 216
Glia are the main source of lactate utilized by neurons for recovery of function posthypoxia
A. Schurr, R.S. Payne, J.J. Miller and B.M. Rigor (USA) 221
Mature sensory neuron-derived hybrid cell line expressing NGF-dependent neurite extension
N. Hikawa and T. Takenaka (Japan) 225
Protective effect of a low dose of colchicine on the delayed cell death of hippocampal CA1 neurons following transient forebrain ischemia
M. Kimura and M. Saji (Japan) 229
Changes in visceral pain reactivity as a function of estrous cycle in female rats with artificial ureteral calculosis
M.A. Giamberardino, G. Affaitati, R. Valente, S. Iezzi and L. Vecchiet (Italy) 234
Dopamine release in striatal slices of rats previously submitted to electroconvulsive shock
F. Passarelli, E. Carmenini, L. Calò and F.E. Pontieri (Italy) 239
Individual pineal cells in chick possess photoreceptive, circadian clock and melatonin-synthesizing capacities in vitro
K. Nakahara, N. Murakami, T. Nasu, H. Kuroda and T. Murakami (Japan) 242
Hypoxic ventilatory roll-off is associated with decreases in protein kinase C activation within the nucleus tractus solitarius of the rat
D. Gozal and E. Gozal (USA) 246
Differential co-localization of nicotinic acetylcholine receptor subunits with calcium-binding proteins in retinal ganglion cells
C.M. Araki, R.S. Pires, L.R.G. Britto, J.M. Lindstrom, H.J. Karten and D.E. Hamassaki-Britto (Brazil, USA) 250
Increased astrocytic expression of metallothioneins I + II in brainstem of adult rats treated with 6-aminonicotinamide
M. Penkowa, J. Hidalgo and T. Moos (Denmark, Spain) 256
Selective dopamine neurotoxicity by an industrial chemical: an environmental cause of Parkinson's disease?
R. Masalha, Y. Herishanu, A. Alfahel-Kakunda and W.F. Silverman (Israel) 260
Tryptophan ingestion by gestant mothers alters prolactin and luteinizing hormone release in the adult male offspring
L. Martin, M. Rodríguez Díaz, C. Santana-Herrera, A. Milena and C. Santana (Spain) 265
Central application of a nitric oxide donor activates heat defense in the rabbit
S. Eriksson, H. Hjelmqvist, R. Keil and R. Gerstberger (Germany, Sweden) 269

Author Index 274